

JASPAR COMPANY INC.

Scale 1:240 Imperial

Well Name: BOSS #1
Surface Location: SW SE NW NW Section 11 - -7S - 20W
Bottom Location:
API: 15-163-24328
License Number: 34903
Spud Date: 1/12/2017 Time: 1:30 PM
Region: ROOKS COUNTY KANSAS
Drilling Completed: 1/25/2017 Time: 8:54 AM
Surface Coordinates: 1265' FNL & 765' FWL
Bottom Hole Coordinates:
Ground Elevation: 2164.00ft
K.B. Elevation: 2172.00ft
Logged Interval: 3000.00ft To: 3720.00ft
Total Depth: 3720.00ft
Formation: LANSING - KANSAS CITY: ARBUCKLE
Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

OPERATOR

Company: JASPAR COMPANY
Address: 1681 LIMESTONE ROAD SOUTH
HAYS, KS 67601
Contact Geologist: SHANE VEHIGE
Contact Phone Nbr: (785) 623-6982
Well Name: BOSS #1
Location: SW SE NW NW Section 11 - -7S - 20W
API: 15-163-24328
Pool: Field: WILDCAT
State: KANSAS Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.5361621
Latitude: 39.4619289
N/S Co-ord: 1265' FNL
E/W Co-ord: 765' FWL

LOGGED BY



Company: BIG CREEK CONSULTING, INC.
Address: 1909 MAPLE
ELLIS, KS 67637

Phone Nbr: (785) 259-3737
 Logged By: GEOLOGIST

Name: JEFF LAWLER

CONTRACTOR

Contractor: WW DRILLING, LLC
 Rig #: 12
 Rig Type: MUD ROTARY
 Spud Date: 1/12/2017
 TD Date: 1/25/2017
 Rig Release: 1/26/2017
 Time: 1:30 PM
 Time: 8:54 AM
 Time: 11:30 AM

ELEVATIONS

K.B. Elevation: 2172.00ft
 K.B. to Ground: 8.00ft
 Ground Elevation: 2164.00ft

NOTES


DUE TO LACK OF ECONOMICAL RECOVERY ON ALL DST'S IT WAS DECIDED TO PLUG & ABANDON THE BOSS #1.

RESPECTFULLY SUBMITTED,
 JEFF LAWLER

WELL COMPARISON SHEET

FORMATION	BOSS #1								P&A 12-95				P&A 9-83				FRONTIER OIL CO.											
	NW NENW 11-7-20				NE NENE 10-7-20				SE SW SW 2-7-20				NW NENW 10-7-20															
	KB		GL		KB		2149		KB		2152		KB		2142		KB		2143									
	LOG TOPS	SAMPLE TOPS	LOG	LOG	SMPL.	COMP. CARD	LOG	SMPL.	LOGS	LOG	SMPL.	COMP. CARD	LOG	SMPL.	COMP. CARD	LOG	SMPL.											
DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM									
ANHYDRITE TOP	1742	430	1744	428	1715	434	-	4	-	6	1710	442	-	12	-	14	1707	435	-	5	-	7	1697	446	-	16	-	18
BASE	1774	398	1780	392	1747	402	-	4	-	10																		
TOPEKA	3149	-977	3152	-980	3130	-981	+	4	+	1	3126	-974	-	3	-	6	3120	-978	+	1	-	2	3119	-976	-	1	-	4
HEEBNER SHALE	3351	-1179	3349	-1177	3334	-1185	+	6	+	8	3328	-1176	-	3	-	1	3322	-1180	+	1	+	3	3324	-1181	+	2	+	4
TORONTO	3376	-1204	3377	-1205	3358	-1209	+	5	+	4	3356	-1204	+	0	-	1	3345	-1203	-	1	-	2	3347	-1204	+	0	-	1
LKC	3393	-1221	3391	-1219	3371	-1222	+	1	+	3	3372	-1220	-	1	+	1	3360	-1218	-	3	-	1	3361	-1218	-	3	-	1
BKC	3595	-1423	3592	-1420	3577	-1428	+	5	+	8	3576	-1424	+	1	+	4	3562	-1420	-	3	+	0	3570	-1427	+	4	+	7
REWORKED ARBUCKLE																	3596	-1454										
ARBUCKLE	3664	-1492	3646	-1474	3642	-1493	+	1	+	19	3612	-1460	-	32	-	14	3620	-1478	-	14	+	4	3600	-1457	-	35	-	17
TOTAL DEPTH	3712	-1540	3720	-1548	3680	-1531	-	9	-	17	3655	-1503	-	37	-	45	3645	-1503	-	37	-	45	3615	-1472	-	68	-	76

DST #1 OREAD 3286' - 3330' *MISRUN; HIT BRIDGE @ 1750*

 <p>TRILOBITE TESTING, INC.</p>	<p>DRILL STEM TEST REPORT</p>	
	<p>Jaspar Co. 1681 Limestone Road South PO BOX 1120 Hays Ks, 67601 ATTN: Jeff Lawler/ Shane V</p>	<p>S11-7S-20W Rooks Co KS Boss #1 Job Ticket: 64661 Test Start: 2017.01.20 @ 07:15:00</p>

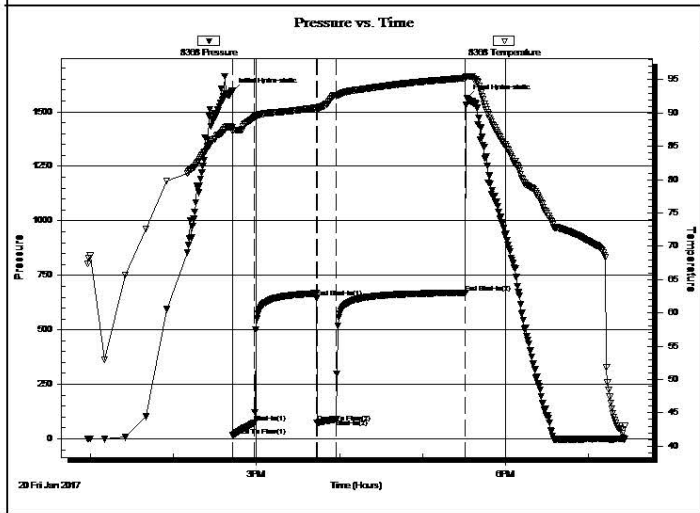
GENERAL INFORMATION:

Formation: **Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended: 09:01:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J. Staab
 Unit No: 84
 Interval: 3286.00 ft (KB) To 3330.00 ft (KB) (TVD)
 Reference Elevations: 2193.00 ft (KB)
 Total Depth: 3330.00 ft (KB) (TVD)
 2185.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 8.00 ft

Serial #: 8368

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.01.20 End Date: 2017.01.20 Last Calib.: 2017.01.20
 Start Time: 07:15:15 End Time: 09:01:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: Did not make it to bottom



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1594.52	87.82	Initial Hydro-static
1	14.69	87.31	Open To Flow (1)
16	71.64	89.31	Shut-In(1)
61	645.80	90.79	End Shut-In(1)
75	73.73	90.65	Open To Flow (2)
75	90.12	92.59	Shut-In(2)
169	669.84	95.25	End Shut-In(2)
170	1562.56	95.50	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
45.00	WGCM 5% W 15% G 80% M	0.22
62.00	WCM 20% W 80% M	0.30
63.00	WCM 40% W 60% M	0.76

* Recovery from multiple tests


Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 64662

Printed: 2017.01.20 @ 23:04:08

DST #3 TORONTO - LKC A 3346' - 3400' *HIT BRIDGE @ 1404' MISRUN*

 <p>TRILOBITE TESTING, INC</p>	DRILL STEM TEST REPORT	
	Jaspar Co. 1681 Limestone Road South PO BOX 1120 Hays Ks, 67601 ATTN: Jeff Lawler / Shane V	S11-7S-20W Rooks Co KS Boss #1 Job Ticket: 64663 DST#: 3 Test Start: 2017.01.21 @ 05:02:00

GENERAL INFORMATION:

Formation: **Toronto- LKC 'A'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended: 07:36:30

Interval: **3346.00 ft (KB) To 3400.00 ft (KB) (TVD)**
 Total Depth: 3330.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 8.00 ft

Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2172.00 ft (KB)
 2164.00 ft (CF)

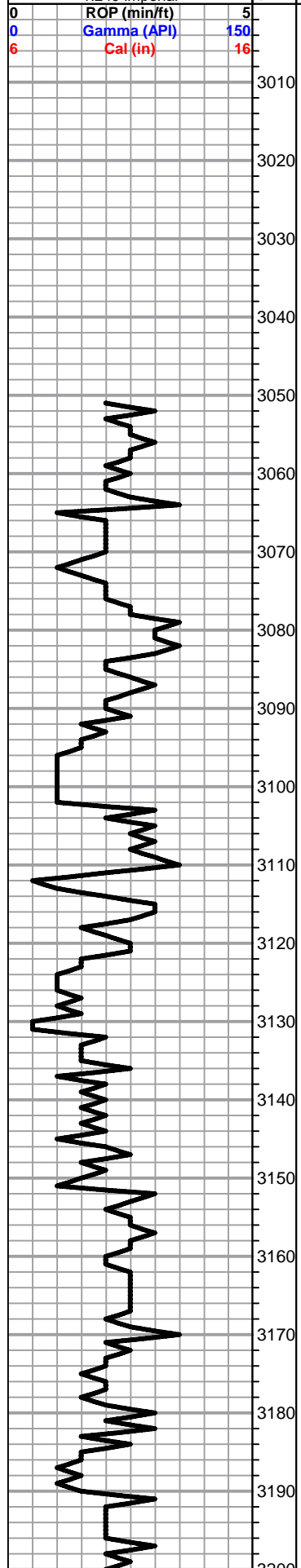
Serial #: 8368 **Inside**

Press@RunDepth: psig @ 3347.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.01.21 End Date: 2017.01.21 Last Calib.: 2017.01.21
 Start Time: 05:02:15 End Time: 07:36:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: Did not make it to bottom. Hit bridge

Cored Interval
DST Interval

1:240 Imperial



0 ROP (min/ft) 5
 0 Gamma (API) 150
 6 Cal (in) 16

1' DRILL TIME THROUGH ANHYDRITE FROM 1740' - 1790'
1' DRILL TIME FROM 3050' - RTD
10' WET/DRY SAMPLES FROM 3100' - RTD

GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 3050' - RTD

8 5/8" SURFACE PIPE SET @ 235' SURVEY 1/2 degree

ANHYDRITE TOP 1744' (+449) E-LOG 1742' (+430)
ANHYDRITE BASE 1780' (+413') E-LOG 1774' (+398)

Lm- Cream Buff, FXLN, fsl bioclastic, fsl fragments & in situ fsl, sctrd XLN porosity, some granular, some gray fn grn Ss stringers, consistent & well consolidated w/ glauconite inclusions

Sh- abundant various dark colored argillaceous clumps, some sl sandy

Lm- Gray Buff, FXLN, dense well cemented trashy high-energy fsl mix, crinoids sctrd XLN porosity, some gummy white & gray clumps

Lm- Gray, VF-FXLN, dense, well cemented, some sctrd fsl fragments, poor vis. porosity, gummy gray clumps

Sh- Maroon Gray, argillaceous clumps & gray Fn grn Ss stringers, micaceous

TOPEKA 3152' (-959) E-LOG 3149' (-977) Lm- Cream Tan Buff, VF-FXLN, sctrd fsl, mostly XLN matrix w/ some sl chalky mud supported matrix, all w/ poor vis. to sctrd XLN porosity, barren

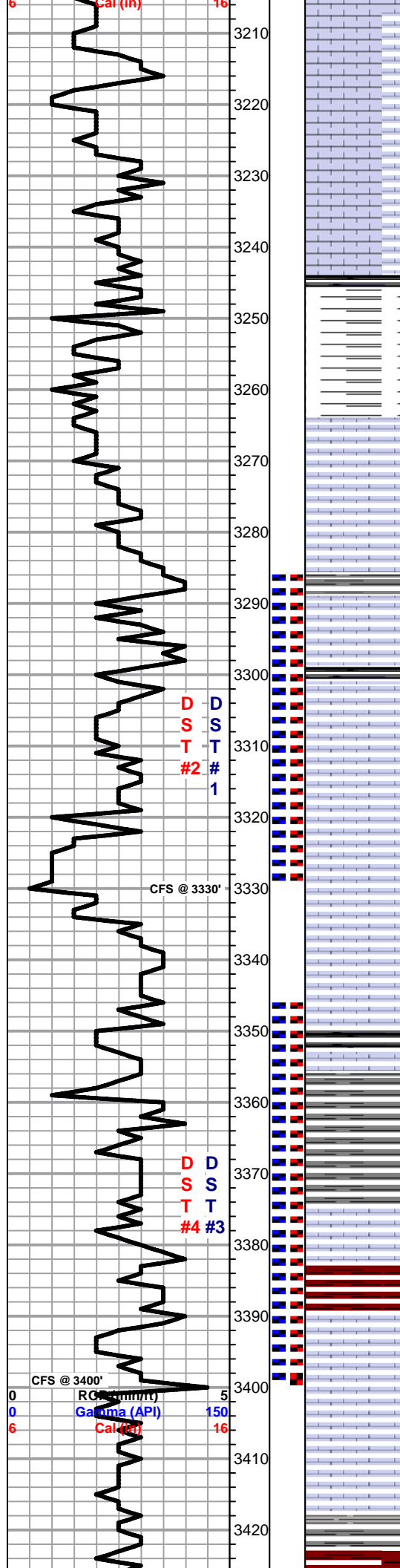
Lm- Cream, FXLN, dense, grainy, semi granular & dolomitic like, dense XLN porosity, clean, some soft white chalk

Lm- Buff, FXLN, well cemented, sctrd fsl fragments, dense XLN porosity, few fn grn Ss stringers, well sorted & consolidated, barren

Lm- Cream Off White, FXLN, dense, well cemented, semi granular, dense XLN porosity, some w/ black fsl inclusions, some gummy white chalk

Ss- Dove Gray, Vf grn, well consolidated & sorted, chalky/shaley, some sandy soft gray chalk

0 ROP (min/ft) 5
 0 Gamma (API) 150
 6 Cal (in) 16



Lm- Cream, FXLN, oolitic, massive, well cemented, dense XLN & sctrd secondary reXLN porosity, sctrd clear replacement cementation, vry clean & barren

Lm- Buff, FXLN, dense, fsl, poorly dev. w/ sctrd XLN porosity

Lm- A/A w/ some soft white chalk

Lm- Cream Buff Tan, FXLN, fsl w/ fusulinids, sctrd XLN porosity, some mottled soft white mud supported matrix w/ min. vis. porosity

Sh- Black Maroon Gray, fissile & carbonaceous, gritty, argillaceous

Sh- argillaceous maroon & mint green

Lm- Cream, VF-FXLN, dense, loosely cemented, & sl chalky, micro pyrite inclusions, some soft white chalk

Lm- Tan, VFXLN, sl fsl, dense, well cemented, tight w/ sctrd XLN porosity

Lm- Cream Tan, FXLN, well cemented, grainy w/ definitive grain matrix, massive, dense XLN porosity

Sh- Black, fissile & carbonaceous

Lm- White Off White, FXLN, well developed, fsl & oolitic w/ sctrd ppt to vuggy interoolite porosity, SCTRDRK STN, FSFO, GD ODR, some chalky in part & loosely cemented

Lm- Cream Off White, FXLN, oolitic & fsl, less dev. w/ sctrd XLN porosity, mixed w/ grainy, loosely cemented & semi granular, vry clean & barren

Lm- Cream Off White, FXLN, dense, well cemented, grainy dolomitic Ls w/ dense XLN porosity, sctrd secondary reXLN porosity & sctrd clear replacement cementation, barren w/ soft white chalk

Lm- Lt Gray, VFXLN, well cemented, tight w/ poor vis. porosity, barren

Lm- Cream Tan, FXLN, Fn Grn, tight loosely cemented, heavily mottled, poor vis. porosity

HEEBNER 3349' (-1156) E-LOG 3351' (-1179) Sh- Black Green, fissile & carbonaceous, waxy & dense

Sh- Gray Maroon Green, abundant argillaceous clumps

TORONTO 3377' (-1184) E-LOG 3376' (-1204) Lm- Off White Cream, VF-FXLN, dense, well cemented, sctrd XLN & secondary reXLN porosity, rare fn ppt porosity, SCTRDRK STN, NSFO, NO ODR

Sh- abundant gummy red clumps

LKC 3391' (-1198) E-LOG 3393' (-1221) Lm- Off White, FXLN, mod. well developed oolitic w/ sctrd ppt-vuggy interoolite porosity, DRK STN, TR FO, WK-FR ODR, sctrd reXLN among vugs

Lm- White, FXLN, mostly tight w/ sctrd to dense XLN porosity, vry clean & barren, some chalky in part

Lm- A/A w/ bone white porcelain like cherty Ls & sl influx of white chalk & tan VFXLN, dense w/ no vis. porosity, all barren

Sh- Black Maroon Gray Green, gritty & earthy, some gummy clumps & sl sandy wash

SHORT TRIP
35 STNDS.
SURVEY 3/4 dgr.
STRAP-4.25'

DST #1 OREAD
3286' - 3330'
MISRUN
HIT BRIDGE @
1750'

DST #2 OREAD
3286' - 3330'
15-45-15-90

170' TOTAL FLUID
45' WGCM
(15%G, 5%W,
80%M)
62' WCM
(20%W, 80%M)
63' WCM
(40%W, 60%M)

IFP: 14-71#
FFP: 73-90#
SIP: 645-669#
HYD: 1594-1562#
CHLOR: 23.5K

3308.jpg

DST #3
TORONTO-LKC A
3346' - 3400'
*MISRUN HIT
BRIDGE
@ ~1404*

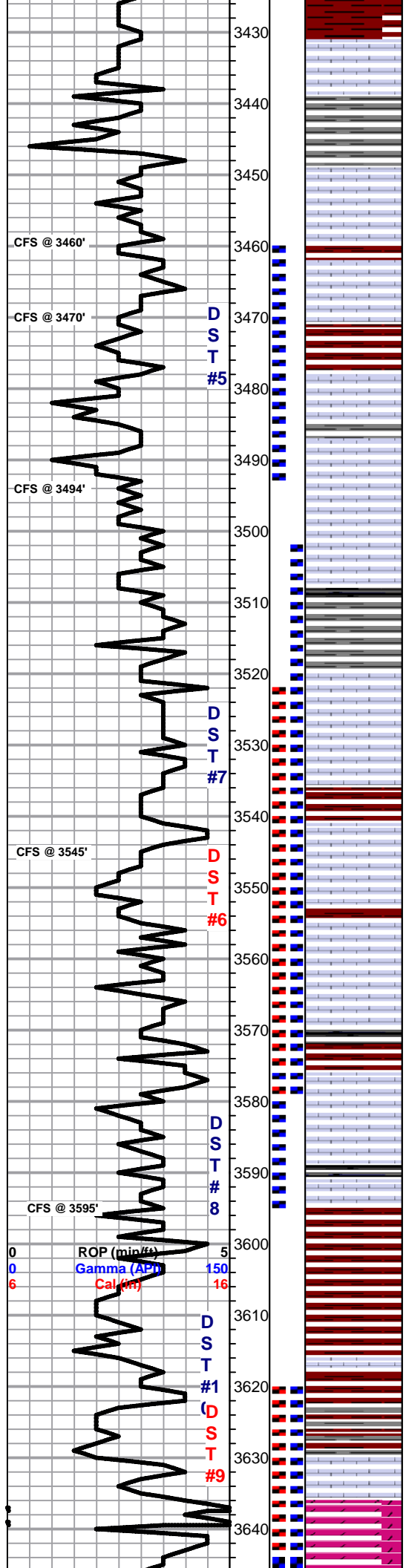
DST #4
TORONTO-LKC A
3346' - 3400'
45-45-45-45

30' OCM
(25%O, 75%M)

IFP: 12-22#
FFP: 22-22#
SIP: 109-60#
HYD: 1629-1613#
BHT: 100 dgr.

3380.jpg

3395.jpg



○ Lm- Cream Off White, FXLN, fsl & sl oolitic, poorly developed w/ sctrd XLN porosity & reXLN veins, some sctrd clear replacement cementation, some sl grainy, barren & clean, some loosely cemented mud supported matrix, no vis. stn or show, **TR OF ODR?? 1 PC RARE INTEROOLITE FN PPT POROSITY, VRY LT STN, NO FO, TR LT FLOR??**

● Sh- Maroon Gray Gray, abundant argillaceous wash, gritty & earthy, silty & soft

● Lm- Cream Off White, FXLN, fsl, sctrd development w/ sctrd to dense XLN porosity, LT SCTRD STN, TR FO IN A FEW PCS, TR OF FLAKEY STN IN FEW, NO ODR, few sl chalky in part

○ Lm- Cream Tan, VF-FXLN, dense, well cemented, mostly tight w/ poor vis. porosity, barren

○ Lm- Cream Off White, VF-FXLN, massive, well cemented, sctrd fn ppt & XLN porosity, some chalky in part & soft white chalk, SCTRD DRK STN, TR FO, FNT ODR

○ Lm- Cream Off White, VF-FXLN, well cemented dolomitic Ls w/ consistent XLN porosity, LT SCTRD STN, NSFO, TR ODR, tight cherty Ls w/o vis. porosity, some chalky Ls

Chert/Ls- Cream Tan Bone White, vitreous fresh bedded chert, some fsl, some tight cherty Ls, all w/ no-min. vis. porosity

Lm- Cream Buff, VFXLN, dense well cemented cherty Ls w/ min. vis. porosity, vry clean

Sh- Black Gray, fissile & carbonaceous, gummy wash & clumps

● Lm- Cream Buff Gray, mix of FXLN, poorly dev. w/ sctrd XLN porosity, some loosely cemented & chalky, WK STN, NSFO, NO ODR, VFXLN, & dense, well cemented & mostly tight, sl fsl,

○ Lm- Off White, FXLN, sl oolitic, poorly dev. w/ sctrd XLN porosity, WK SCTRD STN, NSFO, NO ODR

○ Lm- Cream Buff, VF-FXLN, dense & well cemented, fsl & sl oolitic w/ sctrd XLN & fn ppt inter oolite porosity, SCTRD STN, NSFO, WK ODR

Lm- Cream Tan, VFXLN, dense well cemented, tight w/ min. vis. porosity, slick

● Lm- Cream Off White, FXLN, mod. well developed w/ dense XLN & sctrd ppt to sub-uggy porosity, some chalky in part, DRK SCTRD TO SUB-SAT STN, TR FO, FR ODR

○ Lm- Off White, FXLN, oolitic, mod. development w/ sctrd ppt interoolite porosity, SCTRD DRK STN, SHW FO W/ GSY BUBBLES, STRNG ODR

BKC 3592' (-1420) E-LOG 3595' (-1423)

Sh- Maroon Gray Green, gritty & earthy, semi gummy wash, some sandy wash

● Lm- Off White Cream, FXLN, fsl & sl oolitic, poorly dev. w/ sctrd XLN, some sl mottled w/ micro pebble inclusions, clean & barren, some sl cherty Ls

○ Lm/Ss- Cream Semi-Translucent, FXLN, sl fsl, sctrd to dense XLN porosity, some clear replacement cementation, barren, Ss- White, Fn Grn, consolidated & mod. well sorted, light Ca cementation, friable, mature & rounded, SCTRD BLK STN, NSFO, NO ODR, TR WK FLOR.

-3454.jpg

-3475.jpg

-3482.jpg

DST #5 LKC E-G
3455' - 3494'
10-30-10-45
(CHART BELOW)
190' TOTAL FLUID
63' OWC
(5% O, 15% W, 80% M)
117' OGMCW
(5% G, 1% O, 50% W, 44% M)
10' WCM w/ OIL SCUM
(<1% O, 10% W, 90% M)

IFP: 17-56#
FFP: 72-89#
SIP: 560-560#
HYD: 1695-1665#
BHT: 100 deg.

DST #5.jpg

-3538.jpg

-3550.jpg

SHORT TRIP
10 STANDS

DST #6
LKC I - K
322' - 3580'
MISRUN

-3570.jpg

DST #7
LKC H-K
3502' - 3580'
45-45-90-60

70' TOTAL FLUID
5' CLN OIL Gr:35
65' OCM
(20% O, 80% M)

IFP: 15-37#
FFP: 37-48#
SIP: 259-392#
HYD: 1731-1712#
BHT: 103 dgr.

-3586.jpg

DST #7.jpg

DST #8 LKC L
3576' - 3595'
45-45-45-60

10' OCM
(3% O, 97% M)

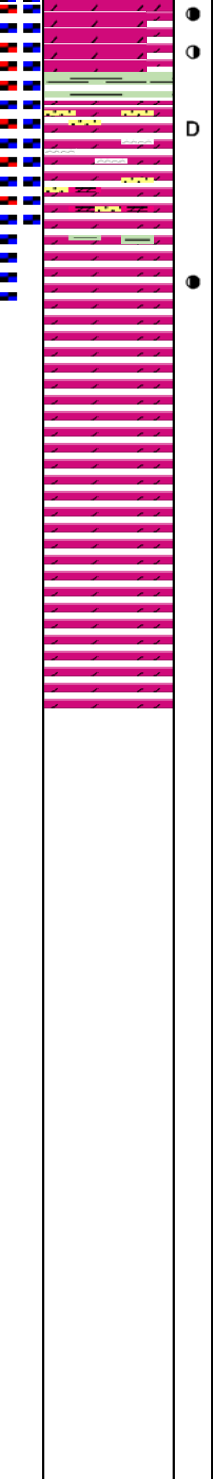
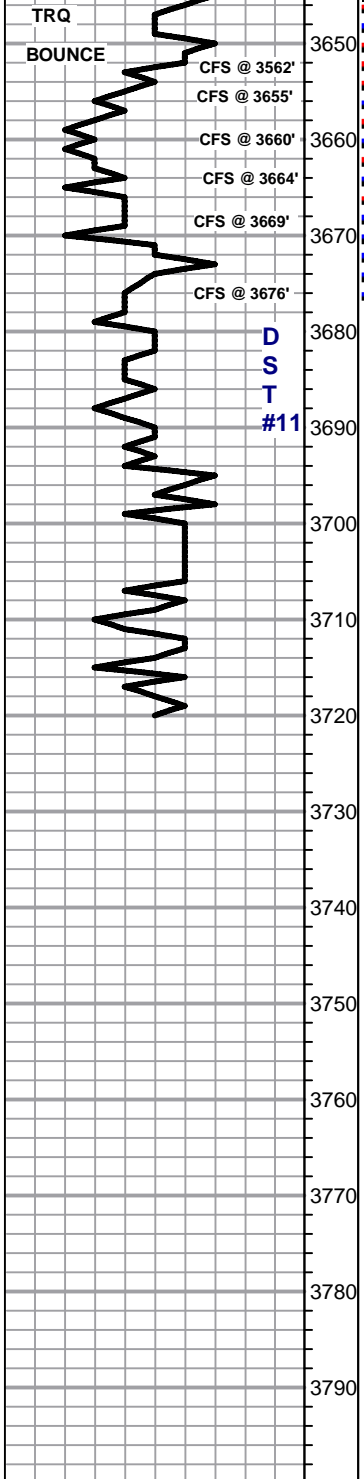
IFP: 10-12#
FFP: 13-16#
SIP: 192-204#
HYD: 1755-1740#
BHT: 98 dgr.

DST #8.jpg

-3635.jpg

-3647.jpg

ARBUCKLE 3646' (-1474) E-LOG 3664' (-1492)



3652' 20"- Dol- Salmon Yellow Cream Off White, F-MEDXLN, mix of colored tight, well cemented w/ dense microXLN porosity & cream-off white mod. well dev. loosely cemented & semi friable w/ consistent dense XLN & fn ppt porosity throughout, SCTD-SUB SAT DRK STN, WK-FR SHW FO, NO ODR, GD STRM WET CUT & BRT FLOR.

40"- Dol- A/A w/ influx of Cream Off White, VF-FXLN, dense, well cemented, mostly tight w/ dense micro XLN porosity, mostly clean & barren w/ few vry sctrd DRK STN, SHW A/A, NO ODR

60"- Dol- influx of colored Dol. (salmon yellow) w/ sctrd mod. dev. some w/ vis. rhombs on one side, tight on the other, SCTRD DRK STN, FR SHW O, NO ODR

3655' 20"- A/A w/ TR ODR

40"- Dol- Cream Off White, mix of FXLN & mod. well dev. MED XLN (~<5% of sample), less dev. barren & clean, mod. dev. w/ some vis. rhombic crystals, ppt porosity, some throughout, DRK STN, FR SHW FO, TR ODR, FR OIL SCUM ON WET CUP

3660' 20"- A/A w/ argillaceous sandy clumps & clay

40"- abundant argillaceous white sandy clumps & fn grn colidated & well sorted friable Ss/sandy dolomite w/ BLK DO STN, NSFO, NO ODR

3664' 40"- Chert- bone white vitreous fresh bedded chert & Sh A/A

3669' 40"- Sh- A/A, Dol- Cream White, mix of loosely cemented & friable sandy dolomite w/ glauconite/chlorite tint/inclusions, few pcs well cemented w/ round qtz. inclusions, all barren, TR ODR??

3676' 40"- Dol- Frosted/White fn-med grn sandy (sub angular) dolomite, friable w/ min. dol. cementation, glauconite inclusions, consolidated w/ moderate sorting, SCTRD TO SAT DRK STN, FR SFO, FO ODR, FR OIL SHEEN ON WET CUP
Sh- Mint Green dense & waxy

3676' 60"- Dol- A/A w/ increasing cementation & competence, sl less stn, ODR A/A

3680"- Dol- Mix of sandy cemented dol A/A & cream off white FXLN, well cemented w/ sub rounded qtz inclusions, SCTRD LT STN, TR FO, WK ODR

3690"- Dol- Cream Tan, FXLN, dense, well cemented, micro XLN porosity, barren

3700"- Dol- Cream Lt Pink/Lt Salmon, FXLN, dense, well cemented, dense XLN porosity, few w/ tr glauconite inclusions, barren

3720' 20"- Dol- Clear Frosted Cream, Med Grn sandy dolomite clusters w/ cream dolomite cementation, consolidated & well sorted, sub-angular, glauconite inclusions, some creal dolomite w/ qtz inclusions, SCTRD BLK DEAD OIL STN, NO SFO, NO ODR

3720' 40"- A/A

3720' 60"- A/A but cream colored dolomite/dolomite cementation

RTD 3720' (-1548) LTD 3712' (-1540) @ 08:54 1/25/2017

3652_60.jpg

3655_40.jpg

DST #9

ARBUCKLE
3620' - 3669'
*HIT BRIDGE
@ 1222"

DST #9.jpg

DST #10

ARBUCKLE
3620' - 3669'
45-60-20-60

20' OCM (1% O)

IFP: 17-29#
FFP: 32-37#
SIP: 32-41#
HYD: 1790-1780#
BHT: 106 dgr.

DST #10.jpg

3676_40.jpg

3676_60.jpg

3720_20.jpg

CFS @ 3720'
SURVEY 1/2 dgr.
TOH TO
ANHYDRITE,
CTCH 30"
TOH FOR LOG

DST #11
(STRADDLE)
ARBUCKLE
3644' - 3678'
45-45-5-30

20' OCM
(5% O, 95% M)

IFP: 19-28#
FFP: 22-23#
SIP: 50-199#
HYD: 1832-1808#
BHT: 102 dgr.

DST #11.jpg

DST #11_...





0.5 mm

3380' X 20



0.5 mm

3395' X 20



0.5 mm

3454' x 20



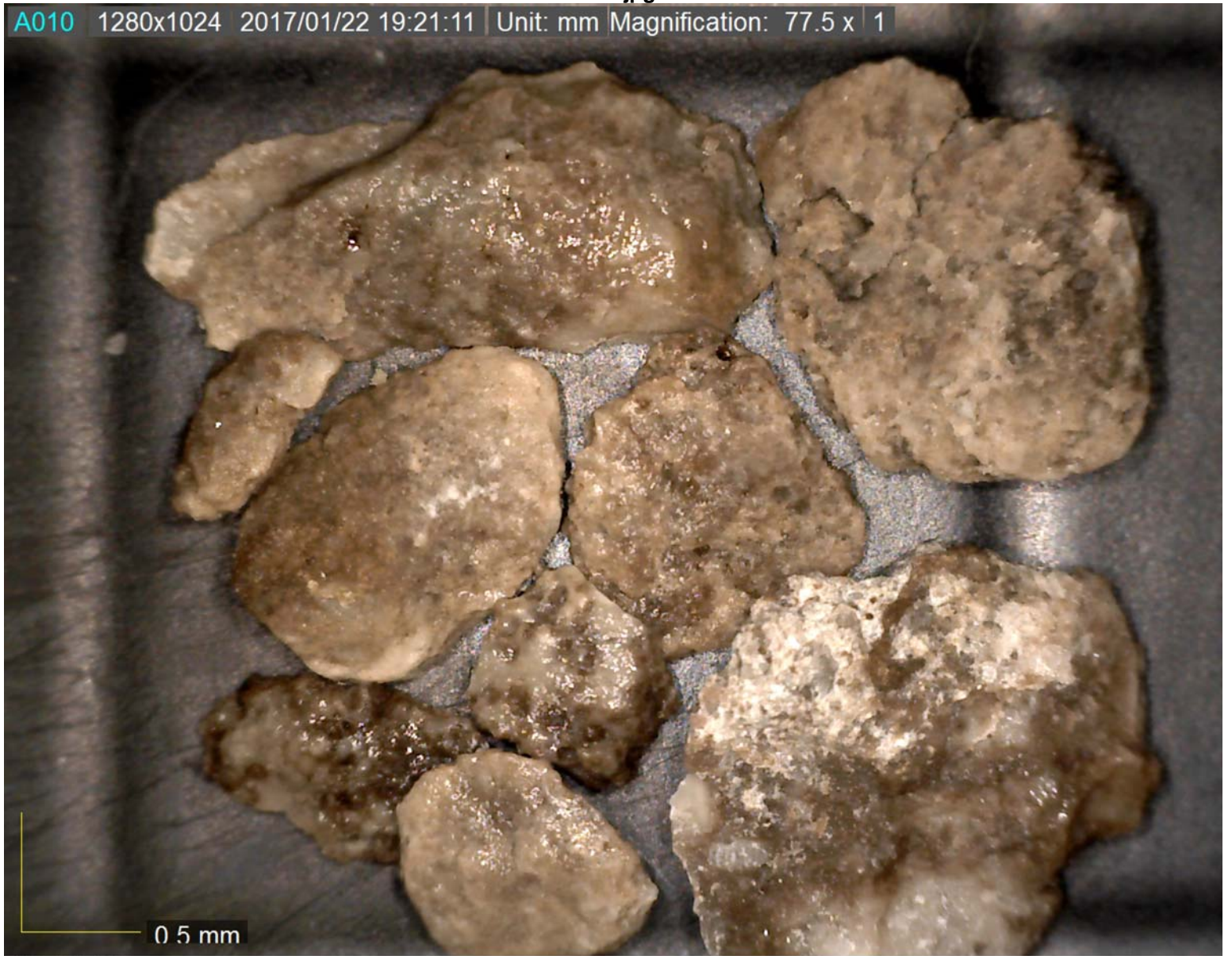
0.5 mm

3475' X 20







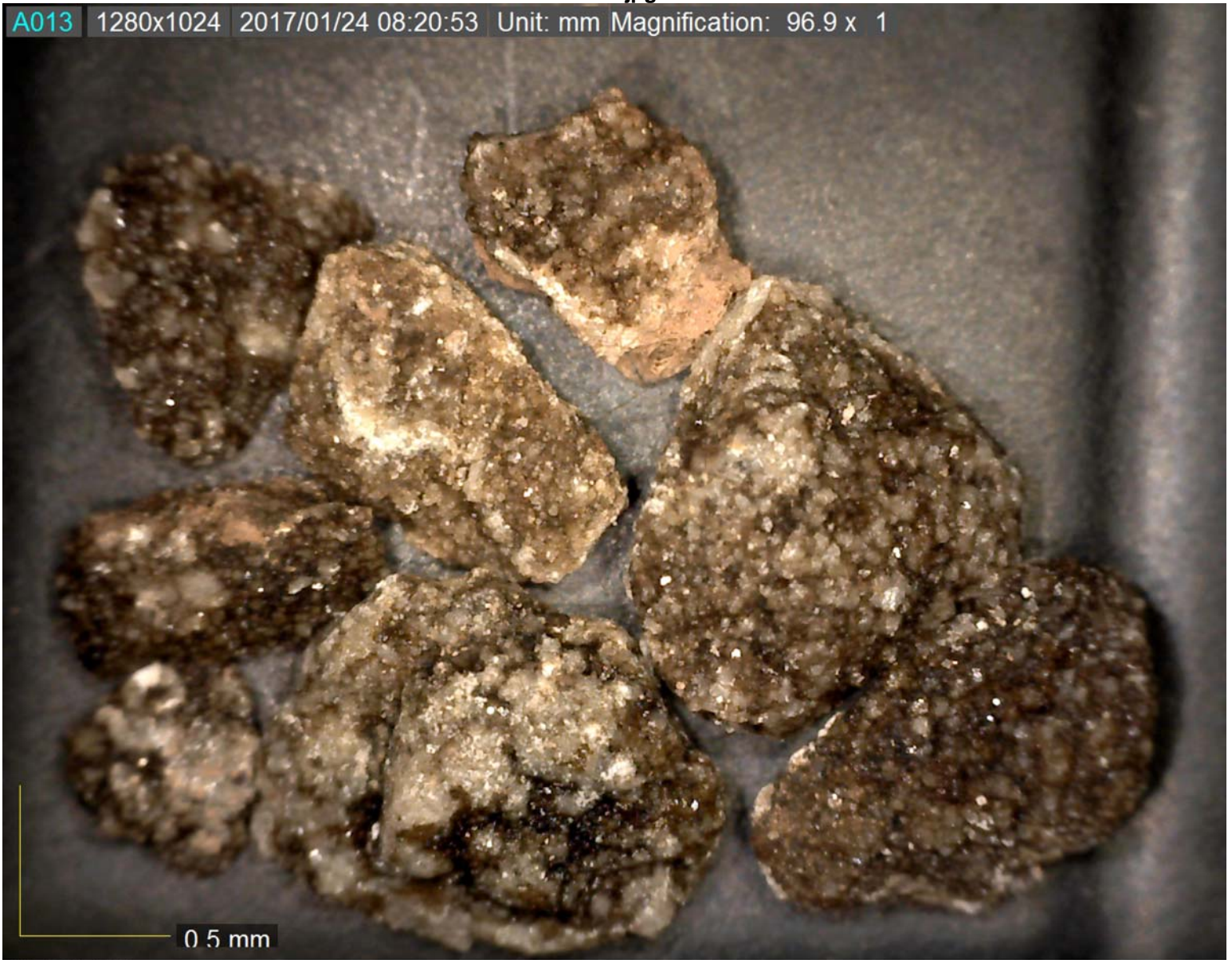






3647.jpg

A013 1280x1024 2017/01/24 08:20:53 Unit: mm Magnification: 96.9 x 1



3647' X 25

3652_60.jpg

A014 1280x1024 2017/01/24 09:23:00 Unit: mm Magnification: 116.2 x 1



3652' 60" X 30

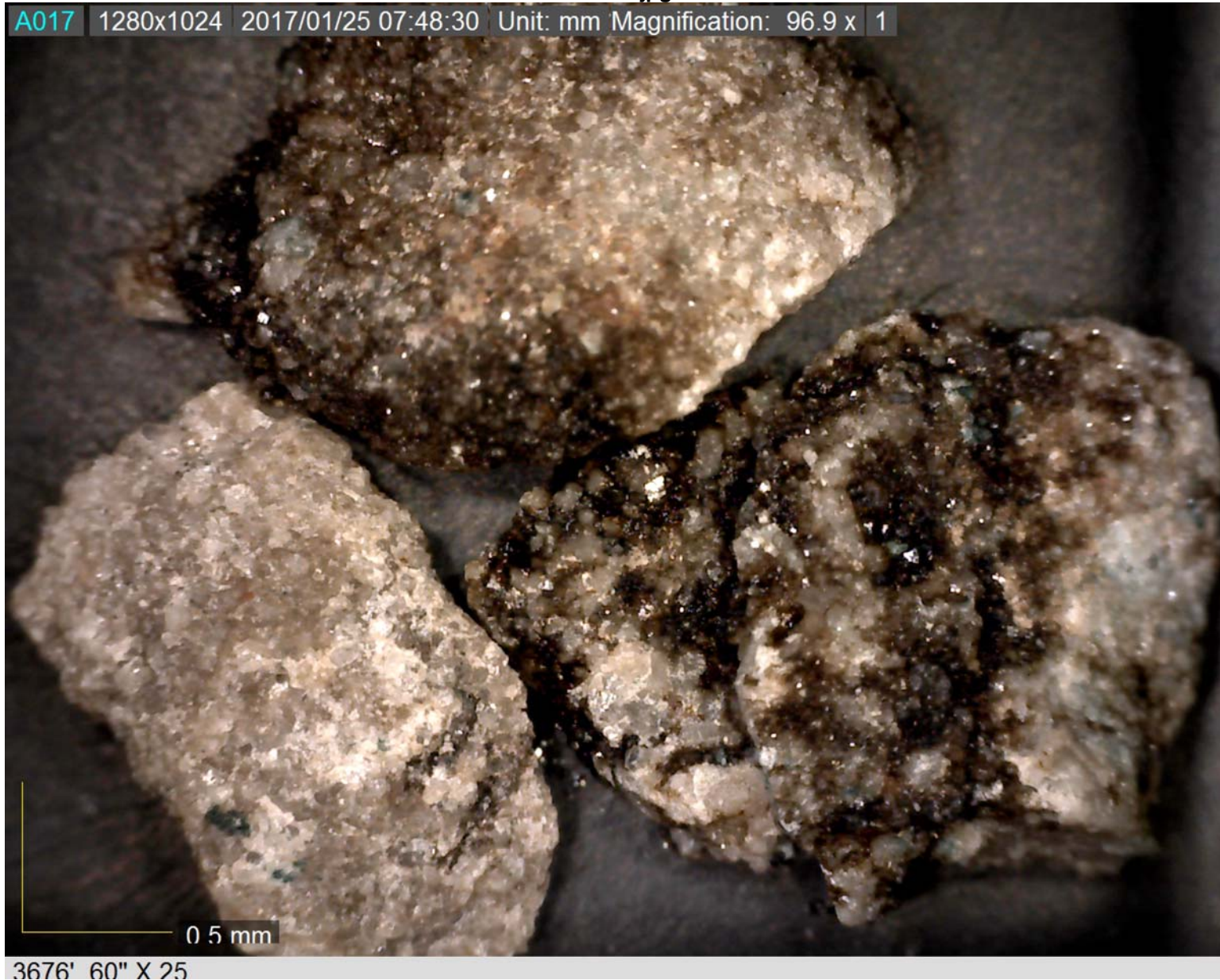
3655 40.jpg



3676 40.jpg


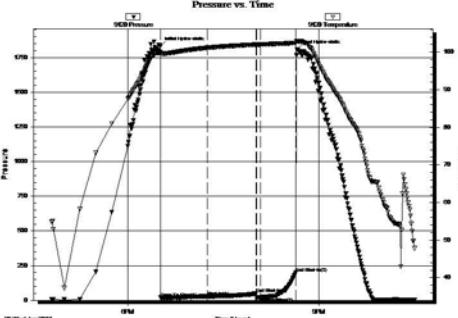


3676 60.jpg



3720 20.jpg



 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT																																						
Jasper Co. 1681 Limestone Road South PO BOX 1120 Hays Ks, 67601 ATTN: Jeff Lawler/ Shane V		S11-7S-20W Rooks Co KS Boss #1 Job Ticket: 64671 DST#: 11 Test Start: 2017.01.25 @ 16:48:00																																					
GENERAL INFORMATION: Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 18:30:45 Time Test Ended: 22:30:15 Test Type: Conventional Straddle (Reset) Tester: Spencer J. Staab Unit No: 84 Interval: 3644.00 ft (KB) To 3678.00 ft (KB) (TVD) Total Depth: 3720.00 ft (KB) (TVD) Reference Elevations: 2172.00 ft (KB) 2164.00 ft (CF) Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 8.00 ft																																							
Serial #: 9120 Inside Press@RunDepth: 23.34 psig @ 3660.00 ft (KB) Capacity: 8000.00 psig Start Date: 2017.01.25 End Date: 2017.01.25 Last Calib.: 2017.01.25 Start Time: 16:48:15 End Time: 22:30:15 Time On Btm: 2017.01.25 @ 18:30:30 Time Off Btm: 2017.01.25 @ 20:39:30																																							
TEST COMMENT: 45-IF-Weak Blow ; Built to 1 and 1/4 inches 45-ISI-No Blow Back 5-FF-No Blow 30-FSI-No Blow Back																																							
Pressure vs. Time 		PRESSURE SUMMARY																																					
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr><td>0</td><td>1832.04</td><td>100.01</td><td>Initial Hydro-static</td></tr> <tr><td>1</td><td>19.11</td><td>99.46</td><td>Open To Flow (1)</td></tr> <tr><td>45</td><td>28.83</td><td>101.13</td><td>Shut-In(1)</td></tr> <tr><td>91</td><td>50.69</td><td>101.98</td><td>End Shut-In(1)</td></tr> <tr><td>91</td><td>22.29</td><td>101.97</td><td>Open To Flow (2)</td></tr> <tr><td>95</td><td>23.34</td><td>102.01</td><td>Shut-In(2)</td></tr> <tr><td>128</td><td>199.86</td><td>102.43</td><td>End Shut-In(2)</td></tr> <tr><td>129</td><td>1808.89</td><td>102.86</td><td>Final Hydro-static</td></tr> </tbody> </table>		Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1832.04	100.01	Initial Hydro-static	1	19.11	99.46	Open To Flow (1)	45	28.83	101.13	Shut-In(1)	91	50.69	101.98	End Shut-In(1)	91	22.29	101.97	Open To Flow (2)	95	23.34	102.01	Shut-In(2)	128	199.86	102.43	End Shut-In(2)	129	1808.89	102.86	Final Hydro-static
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation																																				
0	1832.04	100.01	Initial Hydro-static																																				
1	19.11	99.46	Open To Flow (1)																																				
45	28.83	101.13	Shut-In(1)																																				
91	50.69	101.98	End Shut-In(1)																																				
91	22.29	101.97	Open To Flow (2)																																				
95	23.34	102.01	Shut-In(2)																																				
128	199.86	102.43	End Shut-In(2)																																				
129	1808.89	102.86	Final Hydro-static																																				
Recovery		Gas Rates																																					
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>20.00</td> <td>OCM 5% O 95% M</td> <td>0.10</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Length (ft)	Description	Volume (bbl)	20.00	OCM 5% O 95% M	0.10													<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)															
Length (ft)	Description	Volume (bbl)																																					
20.00	OCM 5% O 95% M	0.10																																					
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																																					
* Recovery from multiple tests																																							

